

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1.-16. (Cancelled)

17. (Currently Amended) A printing method, comprising:
generating page data having a first bit rate per plane per pixel from a first application running on a host machine;
examining the page data in groups of at least two adjacent pixels by use of a second application running on the host machine;
rendering, by the host machine, printer ready data based on the examination of the page data;
combining, by the host machine, the printer ready data with print engine control commands operable to control a print engine to create interim data having a second bit rate per plane per pixel, the second bit rate being lower than ~~that~~ the first bit rate;
transferring the interim data to a printing device;
generating, within the printing device, pulse codes from the interim data; and
rendering a hardcopy image from the pulse codes.

18. (Previously Presented) The printing method of claim 17, further comprising:
displaying the page data having the first bit rate on a display of the host machine.

19. (Previously Presented) The printing method of claim 17, wherein the print engine control commands are operable to control a print engine in toner miser mode.

20. (Previously Presented) The printing method of claim 17, wherein the print engine control commands are operable to control a print engine to perform toner explosion correction.

21. (Previously Presented) The printing method of claim 17, wherein the print engine control commands are operable to control a print engine to reduce edges.

22. (Previously Presented) The printing method of claim 17, wherein the interim data contains all information necessary for the printing device to produce the hardcopy image with the same detail contained in the page data.

23. (Currently Amended) A printing system including a host machine and a printing device, the printing system comprising:

- a first software application on the host machine configured to generate page data having a first bit rate per plane per pixel;

- a second software application on the host machine examining the page data in groups of at least two adjacent pixels;

- a print data processor in the host machine configured to render printer ready data based on the examination of the page data and configured to combine the printer ready data with print engine control commands operable to control a print engine to create interim data having a second bit rate per plane per pixel, the second bit rate being lower than ~~that~~ the first bit rate;

- a first communication device in the host machine configured to transfer the interim data;

- a second communication device in the printing device configured to receive the interim data;

- a pulse code generator in the printing device configured to receive the interim data and configured to generate a pulse code corresponding to the interim data; and

- a print engine configured to receive the pulse code and transform the pulse code to a hardcopy image.

24. (Previously Presented) The printing system of claim 23, wherein the print data processor utilizes a lookup table to generate the interim data.

25. (Previously Presented) The printing system of claim 23, wherein the host machine is a personal computer configured to display the page data having the first bit rate.

26. (Previously Presented) The printing system of claim 23, wherein the print engine control commands are operable to control a print engine in toner miser mode.

27. (Previously Presented) The printing system of claim 23, wherein the print engine control commands are operable to control the print engine to perform toner explosion correction.

28. (Previously Presented) The printing system of claim 23, wherein the print engine control commands are operable to control the print engine to reduce edges.

29. (Previously Presented) The printing system of claim 23, wherein the interim data contains all information necessary for the printing device to produce the hardcopy image with the same detail contained in the page data.

30. (Currently Amended) A printing method using a host machine utilizing at least one processor, and a printing device, the printing method comprising:

generating page data having a first bit rate per plane per pixel from a first application running on a host machine utilizing the at least one processor;

examining the page data in groups of at least two adjacent pixels by use of a second application running on the host machine utilizing the at least one processor;

rendering, by the host machine utilizing the at least one processor, printer ready data based on the examination of the page data;

combining, by the host machine utilizing the at least one processor, the printer ready data with print engine control commands operable to control a print engine to create interim data having a second bit rate per plane per pixel, the second bit rate being lower than ~~that~~ the first bit rate;

compressing, using a compression algorithm, the interim data in the host machine utilizing the at least one processor; and

transferring the compressed interim data to a printing device.

31. (Previously Presented) The printing method of claim 30, wherein the print engine control commands in the host machine control one or more print enhancement selected from the group consisting of toner miser mode, toner explosion correction, and edge reduction.

32. (Previously Presented) The printing method of claim 30, further comprising:
decompressing the compressed interim data in the printing device;
generating, within the printing device, pulse codes from the decompressed interim data;
and
rendering a hardcopy image from the pulse codes.

33. (Previously Presented) The printing method of claim 32, wherein the compression algorithm comprises JBIG.

34. (Previously Presented) The printing method of claim 32, wherein the compression algorithm comprises JPEG.

35. (Currently Amended) The printing method of claim 30,
decompressing, using the compression algorithm, the compressed interim data in the printing device;
wherein the host device includes image processing and the printing device does not include image processing.

36. (New) The printing method of claim 30, wherein the pulse code contains pulse width information and pulse position information, wherein the pulse position information is selected from the group consisting of left-justified, right-justified, center-justified, and split-justified.